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PPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/458,319	12/10/1999	AIDAN JAMES SMYTH	DIVA-043	8719
26291	7590 12/14/2004		EXAMINER	
MOSER, PATTERSON & SHERIDAN L.L.P.			RAMAN, USHA	
595 SHREWSBURY AVE, STE 100 FIRST FLOOR SHREWSBURY, NJ 07702			ART UNIT	PAPER NUMBER
			2616	

DATE MAILED: 12/14/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

		Application No.	Applicant(s)			
Office Action Summary		09/458,319	SMYTH ET AL.			
		Examiner	Art Unit			
		Usha Raman	2616			
The Period for Rep	MAILING DATE of this communication app ly	ears on the cover sheet with the c	orrespondence address			
THE MAILIN - Extensions of after SIX (6) M - If the period for the period for after SIX (6) M - If NO period for the period	NED STATUTORY PERIOD FOR REPLY NG DATE OF THIS COMMUNICATION. Itime may be available under the provisions of 37 CFR 1.13 NONTHS from the mailing date of this communication. It reply specified above is less than thirty (30) days, a reply or reply is specified above, the maximum statutory period way within the set or extended period for reply will, by statute lived by the Office later than three months after the mailing term adjustment. See 37 CFR 1.704(b).	36(a). In no event, however, may a reply be time within the statutory minimum of thirty (30) days will apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONE!	ely filed s will be considered timely. the mailing date of this communication. O (35 U.S.C. § 133).			
Status						
1)⊠ Respo	onsive to communication(s) filed on <u>10-1</u> 2	<u>2-04</u> .				
2a)☐ This a	This action is FINAL. 2b)⊠ This action is non-final.					
3) Since	Since this application is in condition for allowance except for formal matters, prosecution as to the ments is					
closed	closed in accordance with the practice under Ex parte Quayle, 1935 C.D. 11, 453 O.G. 213.					
Disposition of	Claims					
4)⊠ Claim	4)⊠ Claim(s) <u>8-21</u> is/are pending in the application.					
4a) Of	4a) Of the above claim(s) is/are withdrawn from consideration.					
<u> </u>	Claim(s) is/are allowed.					
<u> </u>	Claim(s) <u>8-21</u> is/are rejected.					
	Claim(s) is/are objected to.					
8) Claim	(s) are subject to restriction and/o	r election requirement.				
Application Pa	pers					
9)☐ The specification is objected to by the Examiner.						
10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).						
11)∐ The oa	ath or declaration is objected to by the Ex	caminer. Note the attached Office	Action or form PTO-152.			
Priority under	35 U.S.C. § 119					
12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) ☐ All b) ☐ Some * c) ☐ None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
3.	Copies of the certified copies of the prio		ed in this National Stage			
application from the International Bureau (PCT Rule 17.2(a)).						
* See the	e attached detailed Office action for a list	or the certified copies not receive	eu.			
Attachment/=\						
Attachment(s) 1) Notice of Ref	erences Cited (PTO-892)	4) Interview Summary	(PTO-413)			
· ' ==	ftsperson's Patent Drawing Review (PTO-948)	Paper No(s)/Mail Da	ate			
	Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Mail Date 20041014.	5) Notice of Informal P 6) Other:	atent Application (PTO-152)			

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DETAILED OFFICE ACTION

Response to Arguments

Applicant's arguments filed October 12th, 2004 have been fully considered but they are not persuasive. DeMoney teaches switching between a plurality of content streams during playback only at well-defined "random-access" points (i.e. splicing points). Note column 5, lines 47-52. The index table for that content stream contains the offset points that mark the entry and exit points. When a content stream is switched, the media server looks for an offset in the next content stream (i.e. an entry point in the next content stream) that is just beyond the current output offset (i.e. exit point of the current content stream). Note column 10, lines 31-53. Contrary to what the applicant argues, the combined references do teach the applicant's claimed invention as a whole. Specifically, Day teaches retrieving a second content stream to a first content stream, prior to a point to the end of the video segment. DeMoney further teaches the use of well defined entry/exit splice points for exiting from one content stream and entering another, such that, the switching occurs seamlessly from the viewer point of view. Therefore, examiner maintains rejection.

Claim Rejections - 35 USC § 103

- 2. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

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3. Claims 8-21 are rejected under 35 U.S.C. 103(a) as being unpatentable over Day et al. (US Pat. 5,996,015) in view of DeMoney (US Pat. 6,065,050) and Katinsky et al. (US Pat. 6,452,609).

In regards to claims 8 and 16, Day discloses an information distribution system comprising content provider equipment communicating information streams to a subscriber equipment including content requested by the subscriber. Note summary in column 2, lines 28-52, column 3, lines 15-67, and column 4, lines 1-23 of Day. The subscriber equipment initiates a session with the application server 209 (a "session manager"), and this session is used to control the playback of content streams. Note column 5, lines 40-58. Furthermore, a play list of one or more content stream (assets) to be presented to the subscriber equipment is maintained. A file system 215 (server) stores the content streams and the controller contacts the data pump to retrieve the content for streaming the content to subscriber equipment. Day further discloses that the application server also includes additional information relating to the available content streams (assets). The play list further identifies the "attributes" information (such as play-rate) as well as additional information associated with each of the content stream that allows the user to view or change the attribute information associated with the content stream. Note column 4, lines 8-22. Day teaches controlling the playback of a content stream using VCR style functions, however does not associating a "fast forward" and reverse stream with the

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content streams or modifying the play list in response to play list modification commands from a subscriber equipment.

DeMoney teaches maintaining normal play stream with a look up table for associating the trick play stream (such as fast forward and fast reverse streams) with the content stream. When a user changes the playback rates (i.e. change of attribute) of the content stream using VCR type functions, the media server switches the respective trick play stream associated with the command, based on the offset from the look up table. Note column 4, lines 59-67 and column 5, lines 1-60 of DeMoney. DeMoney further discloses that switching of streams occurs only at well-defined "random-access" points (i.e. splicing points). Note column 5, lines 47-52. The index table contains the offset points that mark the entry and exit points. When a content stream is switched, the media server looks for an offset in the next content stream (i.e. an entry point in the next content stream) that is just beyond the current output offset (i.e. exit point of the current content stream). Note column 10, lines 31-53.

It would have been obvious to one of ordinary skill in the art at the time of the invention to modify the system of Day in view of DeMoney's teachings by maintaining a look up table associating trick play streams with the content streams as an "additional information" relating to the content stream for providing trick play functionality by indexing, in order to reduce processing requirement of the video server. The modified system further contains plurality of splicing points for each content stream, defined by the offsets in the index table, where the next

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content stream is spliced at an entry point (next offset) associated with an exit point (current offset) of a current stream.

The modified system of Day in view of DeMoney lacks modifying the play list in response to play list modification commands sent from subscriber equipment.

Katinsky teaches a user-friendly media player interface that initiates and manages a session with content provider (i.e. "session manager") by creating and maintaining a sequencer (play list) with content streams to be played at the subscriber equipment, where the media player further allows the user to modify the play list. Note column 3, lines 43-54 and column 4, lines 10-18 of Katinsky. Using the media player interface, the subscriber can modify the play list by adding or deleting content streams as well as skip forward and backward to a content stream to be played. Note column 6, lines 19-26 and column 2, lines 55-57 in Katinsky.

It would have been obvious to further modify the system of Day in view of DeMoney with Katinsky's teachings by providing a play-list modification capabilities of Katinsky in order to allow the user to dynamically modify or change the sequence of media content streams to be played.

In regards to claims 9 and 17, the modified system of Day in view of DeMoney and Katinsky provides modification commands such as fast forward, fast reverse as well as skip forward and skip backwards commands (see column 6, lines 19-26 in Katinsky).

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In regards to claims 10 and 18, the modified system of Day in view of DeMoney and Katinsky provides a session manager with "add" and "delete" functionalities that allow media objects to be added or removed from the play list. Note column 2, lines 55-57.

In regards to claim 11, the modified system of Day in view of DeMoney and Katinsky provides a session manager with skip forward and skip backward functionalities to skip to next or previous clip in the play-list. Note figure 7, reference numbers (106) and (107) and description in column 6, lines 19-26 of Katinsky.

In regards to claims 12 and 19, the modified system of Day in view of DeMoney and Katinsky provides a session manager with trick play functionalities that allow a fast reverse and fast forwards stream to be associated with the content stream in response to fast forward and fast reverse commands. Note column 5, lines 25-60 of DeMoney.

In regards to claims 13 and 20, Day discloses that at a predetermined point (threshold level) prior to the end of the current data stream, an initialization process begins for the next video segment on the play list, to prepare the next data stream to be seamlessly concatenated to the end of the current data stream. Note column 6, lines 31-64 of Day. Therefore the modified system of Day in view of DeMoney and Katinsky has "termination notification" means that is communicated to the server when the current data stream reaches the predetermined point (the threshold level).

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In regards to claims 14 and 21, upon reaching the predetermined point prior to the end of the current data stream, the session manage indicates to the server controller the next content stream to be provided to the subscriber equipment.

In regards to claim 15, Day shows that the multimedia files are striped across disks of a plurality of storage servers. Note column 3, lines 15-20, lines 39-67, and column 4, lines 23-30. The data pump acts as the "transport processor", where under the control of the server controller, delivers the media assets to the subscriber equipment.

Conclusion

Any inquiry concerning this communication or earlier communications from the 4. examiner should be directed to Usha Raman whose telephone number is (703) 305-0376. The examiner can normally be reached on Mon-Fri: 9am-6pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Andrew Faile can be reached on (703) 305-4380. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

UR 12-10-04 ANDREW FAILE
SUPERVISORY PATENT EXAMINER
TECHNOLOGY CENTER 2600